

1. Record Nr.	UNINA9910807155603321
Titolo	Plant transposons and genome dynamics in evolution // editor, Nina V. Fedoroff
Pubbl/distr/stampa	Hoboken [N.J.] , : Wiley-Blackwell, 2013
ISBN	1-118-50015-6 1-283-97781-8 1-118-50016-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (240 p.)
Altri autori (Persone)	FedoroffNina V <1942-> (Nina Vsevolod)
Disciplina	581.3/5
Soggetti	Plant genetics Plant genomes Transposons Plants - Evolution
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The discovery of transposition / Nina V. Fedoroff -- A field guide to transposable elements / Alan H. Schulman and Thomas Wicker -- The mechanism of Ac/Ds transposition / Thomas Peterson and Jianbo Zhang -- McClintock and epigenetics / Nina V. Fedoroff -- Molecular mechanisms of transposon epigenetic regulation / Robert A. Martienssen and Vicki L. Chandler -- Transposons in plant gene regulation / Damon R. Lisch -- Imprinted gene expression and the contribution of transposable elements / Mary A. Gehring -- Transposons and gene creation / Hugo K. Dooner and Clifford F. Weil -- Transposons in plant speciation / Avraham A. Levy -- Transposons, genomic shock and genome evolution / Nina V. Fedoroff and Jeffrey L. Bennetzen.
Sommario/riassunto	The transposable genetic elements, or transposons, as they are now known, have had a tumultuous history. Discovered in the mid-20th century by Barbara McClintock, they were initially received with puzzlement. When their genomic abundance began to be apparent, they were categorized as ""junk DNA"" and acquired the label of parasites. Expanding understanding of gene and genome organization

has revealed the profound extent of their impact on both. Plant Transposons and Genome Dynamics in Evolution captures and distills the voluminous research literature on plant transposable elements and

2. Record Nr.	UNINA9910522931703321
Titolo	Medicine-Based Informatics and Engineering // edited by Franco Simini, Pedro Bertemes-Filho
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-87845-7
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (210 pages)
Collana	Lecture Notes in Bioengineering, , 2195-2728
Disciplina	610.285
Soggetti	Biomedical engineering Medical informatics Biology - Technique Biophysics Clinical medicine - Research Medical and Health Technologies Health Informatics Biomedical Devices and Instrumentation Biophysical Methods Clinical Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Medicine Based Engineering and Informatics to Foster Patient Physician Relationship -- Statistical Gait Analysis based on surface electromyography -- Brain-computer interfaces with functional electrical stimulation for motor neurorehabilitation: from research to clinical practice -- Biopotential acquisition systems -- Wearable Bioimpedance Measuring Devices -- Predictive cardiovascular engineering: transforming data into future insights on cardiovascular disease -- Engineering special medical devices for vulnerable groups

-- Serious games and virtual reality for rehabilitation and follow up of wheelchairs persons -- Society 5.0 and a Human Centred Health Care.

Sommario/riassunto

This book originates from the idea to adapt biomedical engineering and medical informatics to current clinical needs and proposes a paradigm shift in medical engineering, where the limitations of technology should no longer be the starting point of design, but rather the development of biomedical devices, software, and systems should stem from clinical needs and wishes. Gathering chapters written by authoritative researchers, working the interface between medicine and engineering, this book presents successful attempts of conceiving technology based on clinical practice. It reports on new strategies for medical diagnosis, rehabilitation, and eHealth, focusing on solutions to foster better quality of life through technology, with an emphasis on patients' and clinical needs, and vulnerable populations. All in all, the book offers a reference guide and a source of inspiration for biomedical engineers, clinical scientists, physicians, and computer scientists. Yet, it also includes practical information for personnel using biomedical equipment, as well as timely insights that are expected to help health agencies and software firms in their decision-making processes.

3. Record Nr.	UNINA9910908372303321
Autore	Patel Ayyub
Titolo	Biochemical Techniques for Analyzing Protein-Lipid Interactions // edited by Ayyub Patel
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819754373 9789819754366
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (183 pages)
Collana	Biomedical and Life Sciences Series
Disciplina	570.28
Soggetti	Biology - Technique Analytical biochemistry Biophysics Proteins Biological Techniques Analytical Biochemistry Biophysical Methods Protein Biochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Challenges and opportunities for analyzing protein-ligand interactions -- Chapter 2. The Landscape of Lipid Protein Interaction -- Chapter 3. NMR Spectroscopy -- Chapter 4. X-ray crystallography -- Chapter 5. Liposome microarray based assay -- Chapter 6. protein-lipid overlay assay -- Chapter 7. Quantitative Analysis of Protein-Lipid Interactions Using Tryptophan Fluorescence -- Chapter 8. Liposome Sedimentation Assay -- Chapter 9. Affinity purification lipodomics -- Chapter 10. Advanced Techniques for Analyzing The Protein-Lipid Interactions.
Sommario/riassunto	The book reviews cutting-edge advancements and their implications across various domains of molecular diagnostics. It covers foundational topics like protein-ligand interactions, lipid-protein interactions within biological membranes, and the application of NMR spectroscopy in understanding membrane structures. The book also explores advanced

techniques such as X-ray crystallography, liposome microarray assays, and protein-lipid interaction studies. By integrating experimental and computational methods, it provides a comprehensive guide to understanding the complexities of molecular diagnostics, from basic principles to innovative approaches in drug discovery and therapeutic development. Each chapter offers detailed discussions on specific topics, supported by experimental data and methodological insights, making it an invaluable resource for researchers, clinicians, and students seeking to enhance their knowledge and expertise in molecular diagnostics.
